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DATE MAILED: 08/27/2010

NOTICE OF ALLOWANCE AND FEE(S) DUE

32692 7590 0827/2010 3M INNOVATIVE PROPERTIES COMPANY PO BOX 33427

ST. PAUL. MN 55133-3427

EXAMINER
HILTON, ALBERT
ART UNIT PAPER NUMBER

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/595 152	03/07/2006	Pohart A. Vanal	50031115003	3.409	

TITLE OF INVENTION: METHODS FOR FORMING A COATING LAYER HAVING SUBSTANTIALLY UNIFORM THICKNESS, AND DIE COATERS

 APPLN. TYPE
 SMALL ENTITY
 ISSUE FEE DUE
 PUBLICATION FEE DUE
 PREV. PAID ISSUE FEE
 TOTAL FEE(s) DUE
 DATE DUE

 nonprovisional
 NO
 \$1510
 \$300
 \$0
 \$1810
 11/29/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. In equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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maintenance fee notificati	ons.		SUE FEE and PUBLICAT orders and notification of r (a) specifying a new corre					
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							(Depositor's name)	
							(Signature)	
			L				(Date)	
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.	
10/595,152	03/07/2006		Robert A. Yapel		59031US003		3408	
TITLE OF INVENTION COATERS	: METHODS FOR F	ORMING A COATE	NG LAYER HAVING SU	BSTANTIALLY 1	UNIFO	RM THICKNESS, A	ND DIE	
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE	E FEE	TOTAL FEE(S) DUE	DATE DUE	
nonprovisional	NO	\$1510	\$300	\$0		\$1810	11/29/2010	
EXAMI	NER	ART UNIT	CLASS-SUBCLASS					
HILTON, A	ALBERT	1716	118-100000					
	ndence address (or Cha /122) attached. cation (or "Fee Address" or more recent) attach	nge of Correspondence "Indication form ted. Use of a Customer A TO BE PRINTED O	registered attorney or a 2 registered patent attorney is listed, no name will be THE PATENT (print or type)	3 registered patentiely, e firm (having as a gent) and the nammers or agents. If printed.	memb es of u no nan	era 2pto		
(A) NAME OF ASSIG	NEE		re data will appear on the p OT a substitute for filing an (B) RESIDENCE: (CITY	and STATE OR C	OUNT	TRY)		
Please check the appropris	ite assignee category or	categories (will not be	printed on the patent):	Individual	orporati	ion or other private gro	oup entity Government	
4a. The following fee(s) as Issue Fee	re submitted:		4b. Payment of Fee(s): (Plea A check is enclosed.	se first reapply at	ny prev	lously paid issue fee	shown above)	
Publication Fee (No small entity discount permitted)			☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).					
Advance Order - #	of Copies		overpayment, to Depo	authorized to char sit Account Numbe	ge the	required fee(s), any de (enclose a	ficiency, or credit any n extra copy of this form).	
	SMALL ENTITY statu	is. See 37 CFR I.27.	☐ b. Applicant is no lon					
NOTE: The Issue Fee and interest as shown by the re	Publication Fee (if requecords of the United Sta	uired) will not be accep tes Patent and Tradema	ted from anyone other than t rk Office.	he applicant; a regi	stered	attorney or agent; or th	e assignee or other party in	
Authorized Signature _				Date				
Typed or printed name			Registration N					
This collection of informa an application. Confidenti submitting the completed this form and/or suggestio Box 1450, Alexandria, Vir Alexandria, Virginia 2231	tion is required by 37 C ality is governed by 35 application form to the ons for reducing this bur rginia 22313-1450. DC 3-1450.	FR 1.311. The informa U.S.C. 122 and 37 CF USPTO. Time will varden, should be sent to O NOT SEND FEES OF	tion is required to obtain or r R 1.14. This collection is est ry depending upon the indiv the Chief Information Office R COMPLETED FORMS To	etain a benefit by t imated to take 12 i idual case. Any co r, U.S. Patent and D'THIS ADDRESS	he pub minuter omment Trader S. SEN	lic which is to file (and s to complete, includin is on the amount of tin nark Office, U.S. Dep D TO: Commissioner	by the USPTO to process) g gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450,	

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10/595,152	03	3/07/2006	Robert A. Yapel	59031US003	3408	
32692	7590	08/27/2010		EXAMINER		
3M INNOVAT	IVE PRO	HILTON, ALBERT				
PO BOX 33427		ART UNIT	PAPER NUMBER			
ST. PAUL, MN 55133-3427				1716		
				DATE MAILED: 08/27/2010		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 794 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 794 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Application No. Applicant(s) 10/595,152 YAPEL, ROBERT A. Notice of Allowability Examiner Art Unit Albert Hilton 1716 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to 8/11/2010. The allowed claim(s) is/are 10, 12-14, 24, 26-28, 31. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) 🔯 All b) ☐ Some* c) ☐ None of the: 1. A Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: _____. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date 3. Information Disclosure Statements (PTO/SB/08), 7. Examiner's Amendment/Comment Paper No./Mail Date 4. T Examiner's Comment Regarding Requirement for Deposit 8. X Examiner's Statement of Reasons for Allowance

/Albert Hilton/ Examiner, Art Unit 1716

of Biological Material

Other .

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DETAILED ACTION

 Claims 1-33 are pending. Claims 1-9, 11, 15-23, 25, 29-30, and 32-33 have been cancelled.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- Determining the scope and contents of the prior art.
- Ascertaining the differences between the prior art and the claims at issue.
- Resolving the level of ordinary skill in the pertinent art.
- Considering objective evidence present in the application indicating obviousness or nonobviousness.
- Rejection of claims 10, 12-14, 24, 26-28, and 31 under U.S.C. 103 is lifted in view of the amended claims.

Allowable Subject Matter

Claims 10, 12-14, 24, 26-28, and 31 are allowed.

3. Regarding claims 10 and 24, the closest prior art is Barstow (US Patent No. 3289632), which describes a die coater comprising a first and second die block and a plurality of fasteners wherein each of the plurality of fasteners extends through the first die block, into the second die block, and provides a compression force between the first

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die block and the second die block. However, Barstow does not teach a die coater further comprising an offset bracket for adjusting the compression force between at least one forward fastener and at least one rearward fastener both of which are located behind the internal manifold and extend through the offset bracket, said offset bracket comprising a forward leg, a rearward leg, an offset arm and having an opening between the forward and rearward legs, the offset arm extending forward of the forward leg, rearward of the rearward leg or being between the forward and rearward legs, as required by the amended claims 10 and 24.

- 4. Claims 12-14 and 26-28 are allowable as being dependent on claims 10 and 24.
- 5. Regarding claim 31, Barstow does not teach a dies block in which each of the plurality of fasteners extends through the first die block, into the second die block, and provides a compression force between the first die block and the second die block; and in which the quantity defined by the cube of the ratio of the overhang/thickness divided by the modulus of elasticity of the first die block is less than about 3.0×10^{-7} in²/lb (4.35 $\times 10^{-8}$ MPa⁻¹).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Albert Hilton whose telephone number is (571)-270-5519. The examiner can normally be reached on Monday through Friday from 8:00 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Parviz Hassanzadeh can be reached on (571)-272-1435. The fax phone Application/Control Number: 10/595,152 Page 4

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number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Albert Hilton/ Examiner, Art Unit 1716